

DRILL HOLES

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PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 177 AND MD 648 IN ANNE ARUNDEL COUNTY.THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A SEPERATE RIGHT TURN LANE ALONG EASTBOUND MD 177.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR BOTH DIRECTIONS OF MD 177.THE SIDE ROAD OPERATES WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR BOTH DIRECTIONS OF MD 648.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOE HORTY
UTILITY ENGINEER
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

MR. EUGENE BAILEY
CHIEF OF SIGN OPERATIONS
(410) 787-7676

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
LS	MOBILIZATION
11 LF	FURNISH AND INSTALL 24 IN.WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
1 EA	INSTALL BREAKAWAY LIGHTING STRUCTURE WITH 6 FT.POLE
1 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE WITH PHOTOCELL
250 LF	DISCONNECT,PULL BACK,RE-ROUTE EXISTING ELECTRICAL SIGNAL CABLES AND CONNECT AT CONTROLLER CABINET
3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
110 LF	SAW CUT FOR SIGNAL LOOP DETECTOR
400 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1 CONDUCTOR (NO.14 A.W.G.) LOOP WIRE INCASE IN FLEXIBLE TUBING
100 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2 CONDUCTOR (NO.14 A.W.G.) ALUMINUM SHIELDED
250 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1 CONDUCTOR (NO.12 A.W.G.)
10 LF	FURNISH AND INSTALL ELECTRICAL CONDUIT 1 IN. DETECTOR SLEEVE GALVANIZED STEEL - TRENCHED
520 LF	FURNISH AND INSTALL 3 IN.ELECTRICAL CONDUIT RIGID PVC SCHEDULE 80 - TRENCHED
1 EA	DISCONNECT AND REMOVE EXISTING UNDERGROUND POWER FEED LIGHTING CABLES
2.1 CY	FURNISH AND INSTALL CONCRETE FOR FOUNDATION FOR LIGHTING STRUCTURE
1 EA	REMOVE & DISPOSE OF EXISTING METERIAL AND EQUIPMENT
1 EA	FURNISH AND INSTALL TYPE 2 CONNECTOR KIT
1 EA	FURNISH AND INSTALL TYPE 1 CONNECTOR KIT
1 EA	FURNISH AND INSTALL GROUND ROD 3/4 x 10 FT.
60 LF	FURNISH AND INSTALL BARE COPPER GROUND WIRE (NO.6 A.W.G.)
55 LF	FURNISH AND INSTALL 3 IN.ELECTRICAL CONDUIT RIGID PVC SCHEDULE 80 - SLOTTED

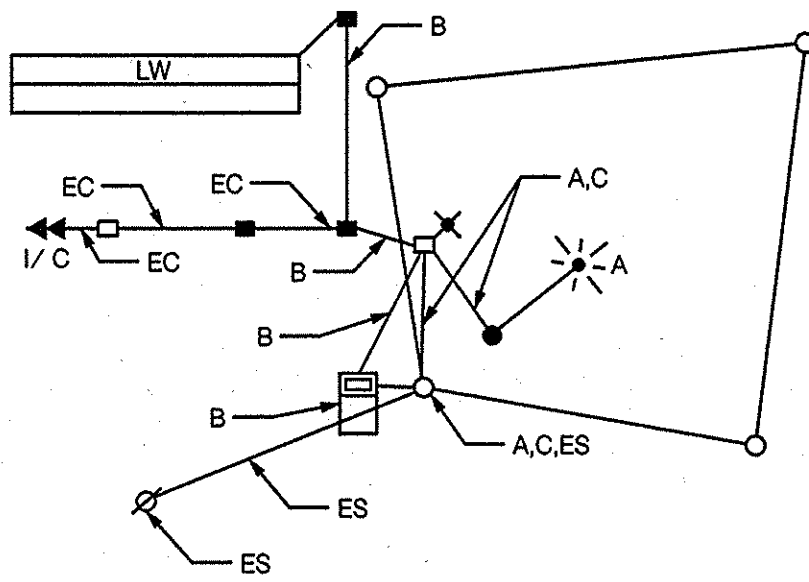
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



WIRING KEY

A	1-CONDUCTOR ELECTRICAL CABLE (NO.12 A.W.G.)
B	2-CONDUCTOR ELECTRICAL CABLE (NO.14 A.W.G.) ALUMINUM SHIELDED
C	STRANDED BARE COPPER GROUND WIRE (NO.6 A.W.G.)
ES	EXISTING ELECTRIC SERVICE
EC	EXISTING SIGNAL CABLES
LW	LOOP WIRE

PHASE CHART

PHASE CHART WILL NOT CHANGE

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite E
Gambrills, MD 21054

(410) 923-7101
FAX: (410) 923-6473
TRAFFIC@TRAFFIC-CONCEPTS.COM



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 177 AND MD 648 /
JUMPERS HOLE ROAD
(PASADENA, MD)

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	12-12-08	CONTRACT NO.	BW996MB2
DESIGNED BY	S. RENZI	COUNTY	ANNE ARUNDEL		
DRAWN BY	M. ROSEN	LOGMILE			
CHECKED BY	S. RENZI	T.I.M.S. NO.	J-407		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS 97GI	SHEET NO.	2	OF	3

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DATE: Friday, December 12, 2008 AT 11:37 AM